



# STIC Search Report

EIC 2100

STIC Database Tracking Number: 127747

**TO:** Kambiz Zand  
**Location:** PK2 4C10  
**Art Unit :** 2132  
**Wednesday, July 28, 2004**

**Case Serial Number:** 09625547

**From:** David Holloway  
**Location:** EIC 2100  
**PK2-4B30**  
**Phone:** 308-7794

**david.holloway@uspto.gov**

## Search Notes

Dear Examiner Zand,

Attached please find your search results for above-referenced case.  
Please contact me if you have any questions or would like a re-focused search.

David



# STIC EIC 2100

## Search Request Form

127747

Today's Date:

7-26-04

What date would you like to use to limit the search?

Priority Date: 7/25/2000

Other:

Name Zeag Kambiz

Format for Search Results (Circle One):

PAPER  DISK  EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other \_\_\_\_\_

AU 2132 Examiner # 78582

Room # Ph 4 C10 Phone 306-4169

Serial # 09/625547

Is this a "Fast & Focused" Search Request? (Circle One) YES  NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

See attached.

STIC Searcher David Holloway Phone 308-7794

Date picked up 7-27-04 Date Completed 7-28-04



*David Holloway*  
7-28-04

Set	Items	Description
S1	39	(SMARTCARD? OR (SMART OR IC OR CHIP)() (CARD OR CARDS) ) AND (PASSWORD? OR PASS()WORD?) (N) (DATABASE? OR DATA()BASE?)
S2	21	RD (unique items)
S3	16	S2 NOT PY>2000
S4	16	S3 NOT PD>20000725
File 813:PR Newswire 1987-1999/Apr 30		
		(c) 1999 PR Newswire Association Inc
File 990:NewsRoom Current Apr 1 -2004/Jul 28		
		(c) 2004 The Dialog Corporation
File 810:Business Wire 1986-1999/Feb 28		
		(c) 1999 Business Wire
File 759:Reuters Business Insight 1992-2004/Jul		
		(c) 2004 Datamonitor
File 734:Dayton Daily News Oct 1990- 2004/Jul 25		
		(c) 2004 Dayton Daily News
File 696:DIALOG Telecom. Newsletters 1995-2004/Jul 23		
		(c) 2004 The Dialog Corp.
File 674:Computer News Fulltext 1989-2004/Jul W1		
		(c) 2004 IDG Communications
File 647:cmp Computer Fulltext 1988-2004/Jul W3		
		(c) 2004 CMP Media, LLC
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jul 28		
		(c) 2004 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jul 28		
		(c) 2004 The Gale Group
File 619:Asia Intelligence Wire 1995-2004/Jul 27		
		(c) 2004 Fin. Times Ltd
File 553:Wilson Bus. Abs. FullText 1982-2004/Jun		
		(c) 2004 The HW Wilson Co
File 275:Gale Group Computer DB(TM) 1983-2004/Jul 28		
		(c) 2004 The Gale Group
File 211:Gale Group Newsearch(TM) 2004/Jul 28		
		(c) 2004 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2004/Jul 28		
		(c) 2004 The Gale Group
File 88:Gale Group Business A.R.T.S. 1976-2004/Jul 27		
		(c) 2004 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2004/Jul 28		
		(c) 2004 The Gale group
File 20:Dialog Global Reporter 1997-2004/Jul 28		
		(c) 2004 The Dialog Corp.
File 16:Gale Group PROMT(R) 1990-2004/Jul 28		
		(c) 2004 The Gale Group
File 15:ABI/Inform(R) 1971-2004/Jul 27		
		(c) 2004 ProQuest Info&Learning

00060928

**MICROSOFT SEEKS TO MARRY PCs, SMART CARDS**

Report on Smart Cards

September 23, 1996 VOL: 10 ISSUE: 19 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: BRP PUBLICATIONS

LANGUAGE: ENGLISH WORD COUNT: 1637 RECORD TYPE: FULLTEXT

(c) BRP PUBLICATIONS All Rts. Reserv.

**MICROSOFT SEEKS TO MARRY PCs, SMART CARDS**

TEXT:

...in software form on a user's personal computer (PC) or stored on a portable **smart card** device...

...for intracorporate applications; and the PC/SC Workgroup alliance to pave the way for integrating **smart card** (SC) technology with PCs... designed as an intermediate step for digital certificates as they migrate from software- to hardware- (**smart card**)-based applications. Today, when users receive a digital certificate, it remains resident in their PCs

...mainly for internal use to issue and manage certificates. The server would link to existing **password databases** to make issuing IDs easy, and allow companies to create their own "policies," which are...regardless of what computer they use. This will be enabled by including the certificates on **smart cards**, and Microsoft has teamed with Hewlett-Packard Co. (H-P) and **smart card** players Bull CP8, Schlumberger Electronic Transactions and Siemens Nixdorf Informationssysteme AG to promote **smart card** acceptance in the PC environment...

...P's extended desktop business unit, the open standard the group is developing could "make [**smart cards**] as pervasive a PC component as the CD-ROM drive." The standards these companies are...

...The combination of PC and **smart card** technologies will accelerate the deployment of Internet applications such as online banking and secure electronic...

...vice president of Microsoft's Internet platform and tools division. "With the creation of standard **smart card** interfaces to the PC, applications will be able to interoperate with readers and **smart cards** from multiple vendors...

...foundation for building PC applications that can take advantage of the security and portability of **smart cards**

4/3, K/9 (Item 2 from file: 636)  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

03639227 Supplier Number: 47836966 (USE FORMAT 7 FOR FULLTEXT)

**INTERNET: IBM's GLOBAL SIGN-ON WILL CUT THE NUMBER OF PASSWORDS**

Network Briefing, pN/A

July 15, 1997

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 231

... 4.0 Server and mainframe applications and Oracle, Sybase, DB2/6000, Informix, or SQL Server **databases**.

**Passwords** for Lotus Notes, any DCE Distributed Computing Environment-compatible applications, and custom-built applications will also be stored in the Global Sign-On database. Managing the **password database** from the Tivoli TME systems management environment framework will be possible by the end of this year, and there will also be support for **smart cards**, says Alfred Spector, IBM's general manager of transaction processing systems and chairman of IBM...

4/3, K/15 (Item 4 from file: 275)  
DIALOG(R) File 275: Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

02070891 SUPPLIER NUMBER: 19408948 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The threshold of single sign-on. (DEC's PATHWORKS 5.0E for OpenVMS network  
operating system's security features) (Product Information)

Barry, Richard  
Digital Systems Report, v19, n1, p1(3)  
Spring, 1997  
ISSN: 1086-9638 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1431 LINE COUNT: 00122

... and for defining authentication protocols.

There are other technologies available when extra security is needed.  
" Smartcards " can be used for strong authentication when traditional  
passwords are inadequate. A "public-key" framework...

...authentication agent replaces the OpenVMS native policies that are  
traditionally based on the SYSUAF.DAT database . Password validation,  
password expiration, and password controls, such as minimum and maximum  
password length restrictions, are...

Set	Items	Description
S1	1408	PASSWORD? OR PASSPHRASE? OR PASS(N) (CODE? OR WORD OR PHRASE?) OR PERSONAL() IDENTIFICATION() (WORD OR NUMBER) OR PIN
S2	47	S1(2N) (MULTIPL? OR PLURAL? OR SEVERAL? OR VARIOUS? OR VARIET? OR MANY OR MORE() THAN() ONE)
S3	1885	HIERARCH? OR MULTILEVEL? OR TIER? OR (MULTIPL? OR PLURAL? - OR VARIOUS? OR MANY OR SEVERAL?) (2N) (ACCESS? OR AUTHORITY?)
S4	8734	DATABASE? OR DATAFILE? OR DATA() (BASE? OR BANK?) OR DB OR OODB OR RDB OR DBM
S5	350	SMARTCARD? OR (CHIP OR IC OR SMART) () CARD? ? OR CHIPCARD? - OR ICCARD? OR (PHYSICAL OR HARDWARE) (2N) TOKEN? OR FOB OR FOBS
S6	5	S2 AND S5
S7	1	S2 AND S4 AND S3
S8	6	S6 OR S7
S9	2	S8 NOT PY>2000
S10	2	S9 NOT PD>20000705

File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Jul  
(c) 2004 Info.Sources Inc

10/3,K/1  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2004 Info.Sources Inc. All rts. reserv.

01579343 DOCUMENT TYPE: Product

PRODUCT NAME: SafeBoot 3 (579343)

Control Break International Corp (730904)  
2338 Immokalee Rd #172  
Naples, FL 34110 United States  
TELEPHONE: (941) 498-4060

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20030222

...allowing computers to boot up, the program prompts users for identification information. The system supports **hardware tokens** and **smart card** readers. Following authentication, retrieved data is decrypted transparently and presented in plain text. Following work...

...protects screen savers. A single sign-on feature eliminates the need for users to enter **multiple passwords**. SafeBoot's SafeBoot Rescue Disk can repair damaged internal file systems. SafeBoot Corporate Database, the...

DESCRIPTORS: Computer Security; Configuration Management; Encryption; File Security; Password Protection; **Smart Cards** ; System Utilities; User Identity Management

10/3,K/2

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2004 Info.Sources Inc. All rts. reserv.

01200778 DOCUMENT TYPE: Product

PRODUCT NAME: OmniPass (200778)

SoftEx Inc (751286)  
9300 Jollyville Rd #201  
Austin, TX 78759 United States  
TELEPHONE: (512) 452-8836

RECORD TYPE: Directory

CONTACT: Sales Department

REVISION DATE: 20040706

SoftEx's OmniPass 3.0 supports the management of **multiple passwords**. The solution provides users with a straightforward, graphical interface. It can import passwords. It also supports multiple languages. OmniPass 3.0 works with biometric and **smart card** products. The system can be customized to meet specific password processing requirements. It has an...

DESCRIPTORS: Biometrics; Computer Security; Network Administration; Network Software; Password Protection; **Smart Cards** ; System Monitoring; User Identity Management

Set	Items	Description
S1	64	AU=(HAMID L? OR HAMID, L?)
S2	31	AU=(HILLHOUSE R? OR HILLHOUSE, R?)
S3	14	S1 AND S2
S4	19	(S1 OR S2) AND IC=(G06F-011? OR G06F-012? OR H04L-009?)
S5	30	S3 OR S4
S6	30	IDPAT (sorted in duplicate/non-duplicate order)
S7	18	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)

(c) 2004 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2004/Jul W03

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040722,UT=20040715

(c) 2004 WIPO/Univentio

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200447

(c) 2004 Thomson Derwent

7/5/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015902655 \*\*Image available\*\*  
WPI Acc No: 2004-060495/200406  
Related WPI Acc No: 2004-060494  
XRPX Acc No: N04-048963

Biometric data matching method for smart card, involves extracting biometric data within known reference frame from aligned biometric image, and providing extracted biometric data to smart card

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); HAMID L (HAMI-I); HILLHOUSE R D (HILL-I)

Inventor: HAMID L ; HILLHOUSE R D

Number of Countries: 032 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030223625	A1	20031204	US 2002157120	A	20020530	200406 B
EP 1385118	A2	20040128	EP 2003291304	A	20030530	200409
EP 1385117	A2	20040128	EP 2003291303	A	20030530	200409

Priority Applications (No Type Date): US 2002157120 A 20020530; US 2003412348 A 20030414

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030223625	A1	26	G06K-009/36	
EP 1385118	A2 E		G06K-009/00	Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
EP 1385117	A2 E		G06K-009/00	Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030223625 A1

NOVELTY - The method involves providing a smart card having biometric template data. A biometric image with a known reference frame is aligned relative to the template data based on co-ordinate data related to noncontiguous features of the template data, and other correlation data from the biometric image. Biometric data within the reference frame is extracted from the aligned biometric image and is provided to the smart card.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) a biometric identification system  
(b) a storage medium for performing the biometric data matching method.

USE - Used for matching biometric data in smart card.

ADVANTAGE - The extraction of biometric data within the known reference frame from the aligned biometric image ensures a high level of security associated with the smart card.

DESCRIPTION OF DRAWING(S) - The drawing shows a simplified flow chart of a method of preprocessing a fingerprint image.

pp; 26 DwgNo 3/12

Title Terms: DATA; MATCH; METHOD; SMART; CARD; EXTRACT; DATA; REFERENCE; FRAME; ALIGN; IMAGE; EXTRACT; DATA; SMART; CARD

Derwent Class: S05; T01; T04

International Patent Class (Main): G06K-009/00; G06K-009/36

File Segment: EPI

7/5/2 (Item 2 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015902654 \*\*Image available\*\*  
WPI Acc No: 2004-060494/200406  
Related WPI Acc No: 2004-060495  
XRPX Acc No: N04-048962

Biometric information processing method, involves providing hash function that is dependent upon characteristic of feature, and transforming features according to hash function, resulting in hash features

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); HAMID L (HAMI-I)

Inventor: HAMID L ; HILLHOUSE R D

Number of Countries: 032 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030223624	A1	20031204	US 2002157120	A	20020530	200406 B
			US 2003412348	A	20030414	
EP 1385118	A2	20040128	EP 2003291304	A	20030530	200409
EP 1385117	A2	20040128	EP 2003291303	A	20030530	200409

Priority Applications (No Type Date): US 2003412348 A 20030414; US 2002157120 A 20020530

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 20030223624 A1 15 G06K-009/00 CIP of application US 2002157120

EP 1385118 A2 E G06K-009/00

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

EP 1385117 A2 E G06K-009/00

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030223624 A1

NOVELTY - The method involves extracting a feature data relating to each feature from a biometric data. A hash function F is provided, that is dependent upon a characteristic of the features. The characteristic is determinable from the features but other than determinable from a result of the function in isolation. The features are transformed according to the hash function, resulting in hash features.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a storage medium having data stored to execute biometric information processing method.

USE - Used for performing hash function in biometric data to generate a public template.

ADVANTAGE - The method transforms the alignment data and hence a third part when intercepted, cannot retrieve the sensible information relating to secure data from the transformed alignment data.

DESCRIPTION OF DRAWING(S) - The drawing shows a simplified flow diagram of preprocessing a fingerprint image.

pp; 15 DwgNo 4/6

Title Terms: INFORMATION; PROCESS; METHOD; HASH; FUNCTION; DEPEND;  
CHARACTERISTIC; FEATURE; TRANSFORM; FEATURE; ACCORD; HASH; FUNCTION;  
RESULT; HASH; FEATURE

Derwent Class: S05; T01; T04

International Patent Class (Main): G06K-009/00

File Segment: EPI

7/5/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015767726 \*\*Image available\*\*

WPI Acc No: 2003-829928/200377

XRPX Acc No: N03-663052

Security data accessing method for computers, involves storing encoded secure data that is retrieved using user authorization process and retrieving security data using combination of data key and authorization process

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); HAMID L (HAMI-I)

Inventor: HAMID L

Number of Countries: 102 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030149882	A1	20030807	US 200267403	A	20020207	200377 B

WO 200367401 A1 20030814 WO 2003EP1120 A 20030204 200377  
AU 2003244499 A1 20030902 AU 2003244499 A 20030204 200425

Priority Applications (No Type Date): US 200267403 A 20020207

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20030149882 A1 8 G06F-012/14

WO 200367401 A1 E G06F-001/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL S2 TR TZ UG ZM ZW

AU 2003244499 A1 G06F-001/00 Based on patent WO 200367401

Abstract (Basic): US 20030149882 A1

NOVELTY - The method involves transforming the security data with a data key to produce encoded secure data. The key performs a reverse transform and extracts the security data from the encoded secure data. The encoded secure data is stored in a computer. The encoded data is retrieved using user authorization process. The security data is accessed using the combination of the data key and the user authorization process.

USE - Used for accessing security data in computer systems.

ADVANTAGE - The data key provides security and allows the individual to access the encrypted data using many mechanisms and the method supports any number of logins.

DESCRIPTION OF DRAWING(S) - The drawing shows a security data accessing method.

pp; 8 DwgNo 2B/3

Title Terms: SECURE; DATA; ACCESS; METHOD; COMPUTER; STORAGE; ENCODE; SECURE; DATA; RETRIEVAL; USER; AUTHORISE; PROCESS; RETRIEVAL; SECURE; DATA; COMBINATION; DATA; KEY; AUTHORISE; PROCESS

Derwent Class: T01

International Patent Class (Main): G06F-001/00; G06F-012/14

File Segment: EPI

7/5/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015430368 \*\*Image available\*\*

WPI Acc No: 2003-492510/200346

XRPX Acc No: N03-391206

Information encoding method in non-volatile memory of smart card, involves storing data object at initial memory location and pointer data corresponding to data object at last memory location

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); BOYER J (BOYE-I); HILLHOUSE R D (HILL-I)

Inventor: BOYER J; HILLHOUSE R D

Number of Countries: 101 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030066894	A1	20030410	US 2001972155	A	20011009	200346 B
WO 200332172	A2	20030417	WO 2002EP11274	A	20021007	200346
EP 1435040	A2	20040707	EP 2002781227	A	20021007	200444
			WO 2002EP11274	A	20021007	

Priority Applications (No Type Date): US 2001972155 A 20011009

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20030066894 A1 7 G06K-019/06

WO 200332172 A2 E G06F-012/14

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA

CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA  
ZM ZW  
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB  
GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW  
EP 1435040 A2 E G06F-012/14 Based on patent WO 200332172  
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030066894 A1

NOVELTY - A directory file (25) with start and end address (28,29) is stored in a non-volatile storage of a smart card. A data object is stored within the directory file at the initial available memory location. A data about pointer (31) indicating location of data object is stored at the last memory location, within the directory file.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for encoding smart card.

USE - For encoding data within non-volatile memory of smart card (claimed).

ADVANTAGE - More information are encoded within each directory file. Improves memory management within the directory file. Data object size is changed effectively since the pointer data and data object share the same memory space. Eliminates non-sequential empty memory space within the directory file.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic structure representation of the smart card.

directory file (25)  
start address (28)  
end address (29)  
pointer (31)  
pp; 7 DwgNo 2/2

Title Terms: INFORMATION; ENCODE; METHOD; NON; VOLATILE; MEMORY; SMART; CARD; STORAGE; DATA; OBJECT; INITIAL; MEMORY; LOCATE; POINT; DATA; CORRESPOND; DATA; OBJECT; LAST; MEMORY; LOCATE

Derwent Class: T01; T04; U14

International Patent Class (Main): G06F-012/14 ; G06K-019/06

File Segment: EPI

7/5/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015430157 \*\*Image available\*\*

WPI Acc No: 2003-492299/200346

XRPX Acc No: N03-391024

Biometric method for security systems used in buildings, automobiles, and computers, involves determining access privilege based on comparison of captured information about each person

Patent Assignee: HAMID L (HAMI-I); ACTIVCARD IRELAND LTD (ACTI-N)

Inventor: HAMID L

Number of Countries: 100 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030046552	A1	20030306	US 2001940795	A	20010829	200346 B
WO 200321538	A2	20030313	WO 2002EP8070	A	20020718	200353

Priority Applications (No Type Date): US 2001940795 A 20010829

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20030046552	A1	10		H04L-009/00	
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WO 200321538	A2	E		G07C-009/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA  
ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): US 20030046552 A1

NOVELTY - The method involves storing a biometric data corresponding to biometric characteristic of each M designated person. The captured information about the characteristics of N person is compared with the stored data to produce N results. An access privilege is determined to the secure entity or service depending upon the produced N results.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a security system that secures an entity or service from indiscriminate accesses and provides assesses to subset of N persons of M designated persons.

USE - Used in security system of buildings, automobiles, and computers.

ADVANTAGE - The system restricts the users to perform any unauthorized access and allows accesses to only a subset on N persons of designated M persons. The biometric information used by the system cannot be decrypted, which helps in increasing the safety of the system. The processors and the biometric sensors used are compact, which helps in reducing the entire system. The method is flexible as it can be applied in conjunction with different types of security systems.

DESCRIPTION OF DRAWING(S) - The drawing shows a simplified block diagram illustrating a biometric security system.

Biometric security system (100)  
Portable biometric devices (102)  
Receiving module (104)  
Biometric sensor (106)  
Encoder (108)  
Processor (110)  
Memory (112)  
Locking mechanism (122)  
Processor. (124)

pp; 10 DwgNo 1/3

Title Terms: METHOD; SECURE; SYSTEM; BUILD; AUTOMOBILE; COMPUTER; DETERMINE ; ACCESS; BASED; COMPARE; CAPTURE; INFORMATION; PERSON

Derwent Class: T01; T05; W01

International Patent Class (Main): G07C-009/00; H04L-009/00

International Patent Class (Additional): G06F-001/00

File Segment: EPI

7/5/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015418549 \*\*Image available\*\*

WPI Acc No: 2003-480689/200345

XRPX Acc No: N03-382205

Server access request directing method e.g. for lightweight directory access protocol server, involves transforming data unique to client to determine value indicating one secondary server for servicing access request

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); HILLHOUSE R D (HILL-I)

Inventor: HILLHOUSE R D

Number of Countries: 101 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030070090	A1	20030410	US 2001972156	A	20011009	200345 B
WO 200332600	A1	20030417	WO 2002EP11273	A	20021007	200345
EP 1436966	A1	20040714	EP 2002800611	A	20021007	200446
			WO 2002EP11273	A	20021007	

Priority Applications (No Type Date): US 2001972156 A 20011009

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20030070090 A1 6 H04L-009/32  
WO 200332600 A1 E H04L-029/06

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

EP 1436966 A1 E H04L-029/06 Based on patent WO 200332600

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030070090 A1

NOVELTY - An access request including data unique to a client is provided from a client terminal (10) to one of multiple servers (11,12,15,16,17). The data unique to the client is transformed to determine a value indicating one of the secondary servers i.e. lightweight directory access protocol (LDAP) servers, for servicing the access request. The access request is transmitted to the determined LDAP server.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for computer network.

USE - For directing access requests to secondary lightweight directory access protocol (LDAP) servers in computer network (claimed).

ADVANTAGE - Enables serving access requests regardless of end-user client terminal, from which access is desired. Hence user is enabled to effectively utilize the network services immediately after altering his/her personal profile information.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of the LDAP computer network.

client terminal (10)  
servers (11,12,15,16,17)  
LDAP servers (13)  
pp; 6 DwgNo 1/2

Title Terms: SERVE; ACCESS; REQUEST; DIRECT; METHOD; LIGHT; DIRECTORY; ACCESS; PROTOCOL; SERVE; TRANSFORM; DATA; UNIQUE; CLIENT; DETERMINE; VALUE; INDICATE; ONE; SECONDARY; SERVE; SERVICE; ACCESS; REQUEST

Derwent Class: T01; W01

International Patent Class (Main): H04L-009/32 ; H04L-029/06

File Segment: EPI

7/5/7 (Item 7 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015237894 \*\*Image available\*\*  
WPI Acc No: 2003-298820/200329  
XRPX Acc No: N03-237616

Gated access providing method for securing buildings, banks, cars and computers, involves providing wireless gating signal to access secure entity or service, when biometric data is same as the data stored in a memory

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); BOUIUS D C (BOUI-I); HAMID L (HAMI-I); HUM A (HUMA-I)

Inventor: BOUIUS D C; HAMID L ; HUM A

Number of Countries: 101 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020178367	A1	20021128	US 2001863301	A	20010524	200329 B
WO 200295547	A2	20021128	WO 2002EP4534	A	20020423	200329
TW 571546	A	20040111	TW 2002108522	A	20020425	200442

Priority Applications (No Type Date): US 2001863301 A 20010524

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20020178367 A1 15 H04L-009/00

WO 200295547 A2 E G06F-001/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

TW 571546 A H04L-009/00

Abstract (Basic): US 20020178367 A1

NOVELTY - Biometric information of a person is captured and encoded to output biometric data. The biometric data is then compared with biometric data stored in a memory. If both the data are similar, wireless gating signal is provided to access secure entity or service.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for biometric security system.

USE - For securing buildings, banks, automobiles, computers, etc.

ADVANTAGE - Allows parents to limit TV access of their children in their absence to selected channels and times.

DESCRIPTION OF DRAWING(S) - The figure shows flowchart illustrating gated access providing method.

pp; 15 DwgNo 2a/4

Title Terms: GATE; ACCESS; METHOD; SECURE; BUILD; BANK; CAR; COMPUTER;

WIRELESS; GATE; SIGNAL; ACCESS; SECURE; ENTITY; SERVICE; DATA; DATA;

STORAGE; MEMORY

Derwent Class: S05; T01; T04; W03; X22; X25

International Patent Class (Main): G06F-001/00; H04L-009/00

File Segment: EPI

7/5/8 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015150383 \*\*Image available\*\*

WPI Acc No: 2003-210910/200320

XRPX Acc No: N03-168059

Password verification by transforming variable parameter on known password and comparing static strings

Patent Assignee: HILLHOUSE R D (HILL-I); ACTIVCARD IRELAND LTD (ACTI-N)

Inventor: HILLHOUSE R D

Number of Countries: 100 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200314887	A2	20030220	WO 2002EP8069	A	20020718	200320 B
US 20030037262	A1	20030220	US 2001924502	A	20010809	200325

Priority Applications (No Type Date): US 2001924502 A 20010809

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200314887 A2 E 19 G06F-001/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

US 20030037262 A1 G06F-011/30

Abstract (Basic): WO 200314887 A2

NOVELTY - Method consists in transforming a variable parameter into an ordered string of characters, providing a variable parameter as a known password, determining a static string from data available to an individual and the known password, providing the determined static string as a password for verification and verifying it to determine

that it is an accurate transformation of the variable parameter and indicate that the password is verified. The static string is verified by comparing static strings and a current value for a variable parameter is determined from the present time data.

DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for:

- (1) A method of changing dynamic passwords
- (2) A method of generating a dynamic password

USE - Method is for security applications such as ATMs, telephone banking, houses and safes.

ADVANTAGE - Method enables generation of a dynamic password dependent on dynamic parameters.

DESCRIPTION OF DRAWING(S) - The figure shows a flow diagram of the method of evaluating a dynamic password.

pp; 19 DwgNo 2/3

Title Terms: PASSWORD; VERIFICATION; TRANSFORM; VARIABLE; PARAMETER; PASSWORD; COMPARE; STATIC; STRING

Derwent Class: T01; T05

International Patent Class (Main): G06F-001/00; G06F-011/30

File Segment: EPI

7/5/9 (Item 9 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015124007 \*\*Image available\*\*

WPI Acc No: 2003-184530/200318

XRPX Acc No: N03-145339

Method of string extraction from a biometric information sample in which features of the information are extracted and symbols indicative of characteristics of the features are encoded and formed in a string indicative of the features

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); HAMID L (HAMI-I)

Inventor: HAMID L

Number of Countries: 101 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200310705	A1	20030206	WO 2002EP6979	A	20020624	200318 B
US 20030091218	A1	20030515	US 2001911743	A	20010725	200335
EP 1410312	A1	20040421	EP 2002743238	A	20020624	200427
			WO 2002EP6979	A	20020624	

Priority Applications (No Type Date): US 2001911743 A 20010725

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200310705 A1 E 44 G06K-009/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20030091218 A1 G06K-009/20

EP 1410312 A1 E G06K-009/00 Based on patent WO 200310705

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): WO 200310705 A1

NOVELTY - A biometric information sample, such as a fingerprint, is provided and features are extracted from the sample and encoded, e.g. based on their location within the sample. A string of symbols indicative of the extracted features is then generated. The biometric information sample may be formed by a scanner reading an unknown fingerprint and the resulting string may be hashed to produce a number of hash values for comparison with a stored hash value of known biometric samples.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a

method of password generation by reading a biometric information sample, converting the sample to a hashed string and comparing the string with known strings to provide a match which accesses a password.

USE - Generating biometric keys.

ADVANTAGE - Takes into account that users may not always position their fingerprints at exactly the same position on the reader and thus often produce different results.

DESCRIPTION OF DRAWING(S) - Figure 9 shows a flow drawing of the process.

pp; 44 DwgNo 9/11

Title Terms: METHOD; STRING; EXTRACT; INFORMATION; SAMPLE; FEATURE; INFORMATION; EXTRACT; SYMBOL; INDICATE; CHARACTERISTIC; FEATURE; ENCODE; FORMING; STRING; INDICATE; FEATURE

Derwent Class: S05; T04; W01

International Patent Class (Main): G06K-009/00; G06K-009/20

International Patent Class (Additional): H04L-009/32

File Segment: EPI

7/5/10 (Item 10 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015067611 \*\*Image available\*\*

WPI Acc No: 2003-128127/200312

XRPX Acc No: N03-101727

Portable biometric security device for bio-hazardous area, airport freight area, allows designated person to choose which device or service to access by providing different biometric characteristics

Patent Assignee: BOUIUS D (BOUI-I); HAMID L (HAMI-I); HUM A (HUMA-I)

Inventor: BOUIUS D; HAMID L ; HUM A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020138767	A1	20020926	US 2001812833	A	20010321	200312 B

Priority Applications (No Type Date): US 2001812833 A 20010321

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020138767	A1	14		H04L-009/32	

Abstract (Basic): US 20020138767 A1

NOVELTY - A biometric sensor reads a biometric pattern of a person dependent upon the person presenting the biometric pattern to the sensor. A processor compares the encoded description of the presented biometric pattern with a predefined data and if a match occurs, transmits an authorization signal. A designated person is able to choose which device or service to access by providing different biometric characteristics.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Secure entity or service access providing method; and
- (2) Security system.

USE - For controlling access to secure entity or service such as computer center, bio-hazardous area, airport freight area, hospital-closed area and drug storage area, office building, safety deposit box and vault, ATM, electronic commerce, electronic database information deposit, manipulation or retrieval, etc.

ADVANTAGE - Enables a person to unlock any one portal exclusive of other portals by choosing which of their personal biometric characteristics is presented to the portal security device.

DESCRIPTION OF DRAWING(S) - The figure shows a flow diagram of the portable biometric security device.

pp; 14 DwgNo 5/6

Title Terms: PORTABLE; SECURE; DEVICE; BIO; HAZARD; AREA; AIRPORT; FREIGHT; AREA; ALLOW; DESIGNATED; PERSON; CHOICE; DEVICE; SERVICE; ACCESS; CHARACTERISTIC

Derwent Class: S05; T01; T04; W06  
International Patent Class (Main): H04L-009/32  
File Segment: EPI

7/5/11 (Item 11 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015030420 \*\*Image available\*\*  
WPI Acc No: 2003-090937/200308  
XRPX Acc No: N03-071884

Personalized wireless portable control device for VCR, compares fingerprint of user with prestored templates, based on which data relating to user and function selected by user, are transmitted  
Patent Assignee: BOUIUS D (BOUI-I); HAMID L (HAMI-I); HUM A (HUMA-I)

Inventor: BOUIUS D; HAMID L ; HUM A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020138742	A1	20020926	US 2001812812	A	20010321	200308 B

Priority Applications (No Type Date): US 2001812812 A 20010321

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020138742	A1	14	H04L-009/00	

Abstract (Basic): US 20020138742 A1

NOVELTY - A processor compares the fingerprint of a user with prestored templates. The processor transmits data indicating a function selected by the user of a personalized wireless portable biometric security device and corresponding information about user actuating the selected function, to a transceiver, based on the comparison result.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Personalized wireless portable control security device;
- (2) Personalized wireless portable control system;
- (3) Personalized wireless portable control system utilization method;
- (4) Personalized wireless portable biometric device utilization method.

USE - For controlling access of electronic device such as VCR, television, etc.

ADVANTAGE - Since the data relating to user and function selected by user are transmitted only after comparing the fingerprints of the user, the level of security and personalization for accessing various electronic devices are increased effectively.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating user identification process.

pp; 14 DwgNo 6/6

Title Terms: PERSON; WIRELESS; PORTABLE; CONTROL; DEVICE; VCR; COMPARE; FINGERPRINT; USER; TEMPLATE; BASED; DATA; RELATED; USER; FUNCTION; SELECT ; USER; TRANSMIT

Derwent Class: S05; T01; T05; W01; W04

International Patent Class (Main): H04L-009/00

File Segment: EPI

7/5/12 (Item 12 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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014509771 \*\*Image available\*\*  
WPI Acc No: 2002-330474/200237  
XRPX Acc No: N02-259345

Key server data restoration method involves transferring security data related to single authorization user, from portable data storage device to key server through secure communication session

Patent Assignee: DEW ENG & DEV LTD (DEWE-N)  
Inventor: HAMID L ; HILLHOUSE R D  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applcat No Kind Date Week  
CA 2317211 A1 20020301 CA 2317211 A 20000901 200237 B

Priority Applications (No Type Date): CA 2317211 A 20000901

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
CA 2317211 A1 E 33 H04L-012/24

Abstract (Basic): CA 2317211 A1

NOVELTY - A secure communication session is established between a portable data storage device such as smartcard or a PCMCIA token and a key server. Security data relating to a single authorized user is transferred from the portable data storage device to the key server, through the communication session and is stored in the memory of the key server.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Method of backing up data of key server;
- (b) Method of authenticating a user for accessing data

USE - For restoring security data in a key server, for authenticating a user to access secure data or secure key stored on computer network.

ADVANTAGE - The portable storage data device allows a user to gain access to a computer system and acts as data backup for a portion of the keys within the key server, thus eliminating a need to have a duplicate key server. The keys stored on the key server and portable backup are secured against access by individuals and security is maintained even when copying keys.

DESCRIPTION OF DRAWING(S) - The figure explains the storing of key data on a key server.

pp; 33 DwgNo 4/7

Title Terms: KEY; SERVE; DATA; RESTORATION; METHOD; TRANSFER; SECURE; DATA; RELATED; SINGLE; AUTHORISE; USER; PORTABLE; DATA; STORAGE; DEVICE; KEY; SERVE; THROUGH; SECURE; COMMUNICATE; SESSION

Derwent Class: T01; W01

International Patent Class (Main): H04L-012/24

International Patent Class (Additional): G06F-012/14 ; H04L-009/32 ; H04L-012/22

File Segment: EPI

7/5/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014509769 \*\*Image available\*\*

WPI Acc No: 2002-330472/200237

XRPX Acc No: N02-259343

Systems/files access security provision method for e.g. computer networks, involves authorizing individual for accessing secure password and password is passed from database to password subsystem to provide access to that system

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); DEW ENG & DEV LTD (DEWE-N)

Inventor: HAMID L ; HILLHOUSE R D

Number of Countries: 099 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applcat No	Kind	Date	Week
CA 2317138	A1	20020125	CA 2317138	A	20000830	200237 B
WO 200362968	A1	20030731	WO 2002EP778	A	20020124	200360 N
AU 2002257576	A1	20030902	AU 2002257576	A	20020124	200422 N
			WO 2002EP778	A	20020124	

Priority Applications (No Type Date): US 2000625547 A 20000725; WO 2002EP778 A 20020124; AU 2002257576 A 20020124

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

CA 2317138 A1 E 30 H04L-009/32

WO 200362968 A1 E G06F-001/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 2002257576 A1 G06F-001/00 Based on patent WO 200362968

Abstract (Basic): CA 2317138 A1

NOVELTY - A secure password is provided to a password database and a password subsystem for securing a determined system or file. A user authorization method with sufficient security level to access the password, is determined, using which an individual is authorized and the secure password is retrieved from the database and manually entered to the subsystem for accessing the system or file.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for method of changing a password for securing files accessible by password data entry.

USE - For providing improved security for systems or files accessible by password data entry in computer networks, automatic teller machines, telephone banking, calling cards, telephone answering services, houses, safes, etc. Also for providing security to military related projects.

ADVANTAGE - Simple passwords can be replaced with very complex passwords without requiring the typical user inconvenience relating to complex passwords. Allows a user to secure some files with personal information using a password and others using a company provided password as users are prompted to select more than one password for an application. This also allows for hierarchy of security levels each having a password. Easy to remember the secure passwords as they can be stored in a key database on a smart card.

DESCRIPTION OF DRAWING(S) - The figure shows a flow diagram of a method of accessing the key data within a portable medium, from different locations.

pp; 30 DwgNo 4/7

Title Terms: SYSTEM; FILE; ACCESS; SECURE; PROVISION; METHOD; COMPUTER; NETWORK; AUTHORISE; INDIVIDUAL; ACCESS; SECURE; PASSWORD; PASSWORD; PASS; DATABASE; PASSWORD; SUBSYSTEM; ACCESS; SYSTEM

Derwent Class: T01; W01

International Patent Class (Main): G06F-001/00; H04L-009/32

International Patent Class (Additional): G06F-012/14

File Segment: EPI

7/5/14 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014352432 \*\*Image available\*\*

WPI Acc No: 2002-173133/200223

XRPX Acc No: N02-131535

User authentication method for use in communication, involves selecting suitable user authentication method from user authentication methods associated with different security levels and determined for same user

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); DEW ENG & DEV LTD (DEWE-N)

Inventor: HAMID L ; HILLHOUSE R D

Number of Countries: 101 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1176489	A2	20020130	EP 2001117879	A	20010723	200223 B
CA 2317259	A1	20020125	CA 2317259	A	20000830	200223
WO 200362969	A1	20030731	WO 2002EP780	A	20020124	200360 N
TW 539981	A	20030701	TW 2002101122	A	20020124	200379

AU 2002229724 A1 20030902 AU 2002229724 A 20020124 200422 N  
WO 2002EP780 A 20020124

Priority Applications (No Type Date): US 2000625548 A 20000725; WO  
2002EP780 A 20020124; AU 2002229724 A 20020124

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1176489 A2 E 16 G06F-001/00

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

CA 2317259 A1 E H04L-009/32

WO 200362969 A1 E G06F-001/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CH  
CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS  
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM  
PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM  
ZW

Designated States (Regional): EA GH GM KE LS MW MZ OA SD SL SZ TZ UG ZM  
ZW

TW 539981 A G06F-017/60

AU 2002229724 A1 G06F-001/00 Based on patent WO 200362969

Abstract (Basic): EP 1176489 A2

NOVELTY - The user devices which are in communication with work station, are determined automatically. A suitable user authentication method is selected from several methods associated with different security levels. User authentication information provided in accordance with the selected user authentication method is compared with the stored data for identifying and authenticating the user.

USE - For authenticating user who communicates with work station used in financial, medical, education, government and communication fields.

ADVANTAGE - Determines available user authentication methods automatically. Allows users to access a system using number of available methods and utilizes user authentication methods that are convenient to the user except in the case of requiring a higher level of security.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of user authenticating system.

pp; 16 DwgNo 3/7

Title Terms: USER; AUTHENTICITY; METHOD; COMMUNICATE; SELECT; SUIT; USER;  
AUTHENTICITY; METHOD; USER; AUTHENTICITY; METHOD; ASSOCIATE; SECURE;  
LEVEL; DETERMINE; USER

Derwent Class: T01

International Patent Class (Main): G06F-001/00; G06F-017/60; H04L-009/32

File Segment: EPI

7/5/15 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014191773 \*\*Image available\*\*

WPI Acc No: 2002-012470/200202

XRPX Acc No: N02-010297

Method of establishing secure communications link by encrypting user authorization information using shared electronic key

Patent Assignee: DEW ENG & DEV LTD (DEWE-N)

Inventor: HILLHOUSE R D

Number of Countries: 025 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1079565	A2	20010228	EP 2000118449	A	20000824	200202 B

Priority Applications (No Type Date): US 99382493 A 19990825

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1079565 A2 E 10 H04L-009/08

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): EP 1079565 A2

NOVELTY - Method consists in transmitting a first public key corresponding to the first private key from the first to the second station, receiving it, along with user authorization information from the user of the second station, determining a shared electronic key from the first public and second private keys, or from the second public key corresponding to the first and second private keys, encrypting the user authorization information using the shared key, and transmitting the encrypted information and second public key from the second station to the first. These are received, the key is found from the second public and first private keys, user authorization information is decrypted and registered against stored data. If the user of the second station is authorized a secure communication session is initiated between the two stations.

USE - Method relates to cryptographic systems providing secure communications using an insecure network.

ADVANTAGE - Method uses authorization or biometric information to establish a secure communications link.

DESCRIPTION OF DRAWING(S) - The figure shows a flow chart of the method.

pp; 10 DwgNo 2/3

Title Terms: METHOD; ESTABLISH; SECURE; COMMUNICATE; LINK; USER;  
INFORMATION; SHARE; ELECTRONIC; KEY

Derwent Class: W01

International Patent Class (Main): H04L-009/08

International Patent Class (Additional): H04L-009/32

File Segment: EPI

7/5/16 (Item 16 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013202667 \*\*Image available\*\*

WPI Acc No: 2000-374540/200032

XRPX Acc No: N00-281136

Cryptographic key securing method for computer security system, involves storing data related to selected access method for acquiring accessed secured key used for access of key data file

Patent Assignee: DEW ENG & DEV LTD (DEWE-N)

Inventor: HILLHOUSE R D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6052468	A	20000418	US 987183	A	19980115	200032 B

Priority Applications (No Type Date): US 987183 A 19980115

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6052468	A	14		H04L-009/00	

Abstract (Basic): US 6052468 A

NOVELTY - The data associated with a secured key for encryption in a first computer is accessed by user identification. Then a specific method of user identification is selected for securing the accessed secured key, for access to key data file in a second computer. Then the accessed secured key is acquired and data indicative of selected access method is stored.

DETAILED DESCRIPTION - The user authentication methods comprise password based user authentication and biometric method such as fingerprint authentication. INDEPENDENT CLAIMS are also included for the following:

- (a) method of accessing secured cryptographic key;
- (b) method of securing portable key data including encryption key information

USE - For computer security system, automatic teller machines, telephone banking, calling cards, telephone answering services, houses, safes.

ADVANTAGE - Enables generation of secure key database for system with different configurations. Enables securing key database with multiple security methods.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart depicting cryptographic key accessing method.

pp. 14 DwgNo 3/7

Title Terms: CRYPTOGRAPHIC; KEY; SECURE; METHOD; COMPUTER; SECURE; SYSTEM; STORAGE; DATA; RELATED; SELECT; ACCESS; METHOD; ACQUIRE; ACCESS; SECURE; KEY; ACCESS; KEY; DATA; FILE

Derwent Class: W01

International Patent Class (Main): H04L-009/00

File Segment: EPI

7/5/17 (Item 17 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012851565 \*\*Image available\*\*

WPI Acc No: 2000-023397/200002

XRPX Acc No: N00-017373

**Secure user access providing method in computer system**

Patent Assignee: DEW ENG & DEV LTD (DEWE-N); ACTIVCARD IRELAND LTD (ACTI-N)

Inventor: HAMID L ; HILLHOUSE R D

Number of Countries: 085 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9956250	A1	19991104	WO 99CA370	A	19990423	200002	B
AU 9935142	A	19991116	AU 9935142	A	19990423	200015	
US 6160903	A	20001212	US 9865523	A	19980424	200067	
EP 1074005	A1	20010207	EP 99916737	A	19990423	200109	
			WO 99CA370	A	19990423		
US 6434259	B1	20020813	US 9865523	A	19980424	200255	
			US 99401805	A	19990922		

Priority Applications (No Type Date): US 9865523 A 19980424; US 99401805 A 19990922

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9956250 A1 E 53 G07C-009/00

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

AU 9935142 A Based on patent WO 9956250

US 6160903 A G06K-009/00

EP 1074005 A1 E G07C-009/00 Based on patent WO 9956250

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

US 6434259 B1 G06K-009/00 Div ex application US 9865523

Div ex patent US 6160903

Abstract (Basic): WO 9956250 A1

NOVELTY - When individuals are consistently identified with a higher level of security than current security level, the current security level associated with the determined individuals is increased, and when lower than current security level, the security level is decreased.

DETAILED DESCRIPTION - An initial security level for individuals is determined such that the actual security level is at least a stored system security level. A current security level in association with one of the identification of an individual and an authorization of an individual is stored.

USE - For controlling access of third person using biometric information in computer system.

ADVANTAGE - A separate indication of the presence of a fingerprint is not necessary to capture a fingerprint. The flexible verification is most convenient for majority of users and avoids time consumption.

DESCRIPTION OF DRAWING(S) - The figure shows a flow diagram of method for adjusting individual security levels.

pp; 53 DwgNo 4/12

Title Terms: SECURE; USER; ACCESS; METHOD; COMPUTER; SYSTEM

Derwent Class: T01; T04; T05

International Patent Class (Main): G06K-009/00; G07C-009/00

International Patent Class (Additional): G06K-009/00

File Segment: EPI

7/5/18 (Item 18 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01630379

FLEXIBLE METHOD OF USER AUTHENTICATION FOR PASSWORD BASED SYSTEM

FLEXIBLES VERFAHREN ZUR BENUTZERAUTHENTIFIZIERUNG FUR EIN PASSWORTBASIERTES SYSTEM

PROCEDE FLEXIBLE D'AUTHENTIFICATION D'UTILISATEUR POUR UN SYSTEME FONDE SUR DES MOTS DE PASSE

PATENT ASSIGNEE:

ACTIVCARD IRELAND LIMITED, (4032120), 30 Herbert Street, Dublin 2, (IE),  
(Applicant designated States: all)

INVENTOR:

HAMID, Laurence , 561 Brookridge Crescent, Ottawa, Ontario K4A 1Z3, (CA)

HILLHOUSE, Robert D. , Unit 4B, 120 Holland Avenue, Ottawa, Ontario K1Y 0X6, (CA)

PATENT (CC, No, Kind, Date):

WO 2003062968 030731

APPLICATION (CC, No, Date): EP 2002727317 020124; WO 2002EP778 020124

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-001/00

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030917 A1 International application. (Art. 158(1))

Application: 030917 A1 International application entering European  
phase

LANGUAGE (Publication, Procedural, Application): English; English; English

Set Items Description  
S1 589871 PASSWORD? OR PASSPHRASE? OR PASS(N) (CODE? OR WORD OR PHRASE?) OR PERSONAL() IDENTIFICATION() (WORD OR NUMBER) OR PIN  
S2 9554 S1(2N) (MULTIPL? OR PLURAL? OR SEVERAL? OR VARIOUS? OR VARIET? OR MANY OR MORE() THAN() ONE)  
S3 1142519 HIERARCH? OR MULTILEVEL? OR TIER? OR (MULTIPL? OR PLURAL? - OR VARIOUS? OR MANY OR SEVERAL?) (2N) (ACCESS? OR AUTHORITY?)  
S4 2619059 DATABASE? OR DATAFILE? OR DATA() (BASE? OR BANK?) OR DB OR OODB OR RDB OR DBM  
S5 209864 SMARTCARD? OR (CHIP OR IC OR SMART) () CARD? ? OR CHIPCARD? - OR ICCARD? OR (PHYSICAL OR HARDWARE) (2N) TOKEN? OR FOB OR FOBS  
S6 75 S2(10N) S5  
S7 6426 S5(S) (S3 OR S4)  
S8 23 S2(4N) S3(S) S5  
S9 4 S7 AND S6  
S10 98 S6 OR S8  
S11 51 RD (unique items)  
S12 38 S11 NOT PY>2000  
S13 36 S12 NOT PD=20000725:20030725  
S14 36 S13 NOT PD=20030725:20040901  
File 275:Gale Group Computer DB(TM) 1983-2004/Jul 27  
    (c) 2004 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2004/Jul 27  
    (c) 2004 The Gale group  
File 75:TGG Management Contents(R) 86-2004/Jul W3  
    (c) 2004 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jul 27  
    (c) 2004 The Gale Group  
File 16:Gale Group PROMT(R) 1990-2004/Jul 27  
    (c) 2004 The Gale Group  
File 624:McGraw-Hill Publications 1985-2004/Jul 23  
    (c) 2004 McGraw-Hill Co. Inc  
File 484:Periodical Abs Plustext 1986-2004/Jul W1  
    (c) 2004 ProQuest  
File 613:PR Newswire 1999-2004/Jul 27  
    (c) 2004 PR Newswire Association Inc  
File 813:PR Newswire 1987-1999/Apr 30  
    (c) 1999 PR Newswire Association Inc  
File 141:Readers Guide 1983-2004/Jun  
    (c) 2004 The HW Wilson Co  
File 239:Mathsci 1940-2004/Sep  
    (c) 2004 American Mathematical Society  
File 696:DIALOG Telecom. Newsletters 1995-2004/Jul 23  
    (c) 2004 The Dialog Corp.  
File 553:Wilson Bus. Abs. FullText 1982-2004/Jun  
    (c) 2004 The HW Wilson Co  
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jul 27  
    (c) 2004 The Gale Group  
File 674:Computer News Fulltext 1989-2004/Jul W1  
    (c) 2004 IDG Communications  
File 88:Gale Group Business A.R.T.S. 1976-2004/Jul 23  
    (c) 2004 The Gale Group  
File 369:New Scientist 1994-2004/Jul W3  
    (c) 2004 Reed Business Information Ltd.  
File 160:Gale Group PROMT(R) 1972-1989  
    (c) 1999 The Gale Group  
File 635:Business Dateline(R) 1985-2004/Jul 27  
    (c) 2004 ProQuest Info&Learning  
File 15:ABI/Inform(R) 1971-2004/Jul 27  
    (c) 2004 ProQuest Info&Learning  
File 9:Business & Industry(R) Jul/1994-2004/Jul 26  
    (c) 2004 The Gale Group  
File 13:BAMP 2004/Jul W3  
    (c) 2004 The Gale Group  
File 810:Business Wire 1986-1999/Feb 28  
    (c) 1999 Business Wire  
File 610:Business Wire 1999-2004/Jul 27  
    (c) 2004 Business Wire.

File 647: CMP Computer Fulltext 1988-2004/Jul W3

(c) 2004 CMP Media, LLC

File 98: General Sci Abs/Full-Text 1984-2004/Jun

(c) 2004 The HW Wilson Co.

File 148: Gale Group Trade & Industry DB 1976-2004/Jul 27

(c) 2004 The Gale Group

14/3,K/3 (Item 3 from file: 275)  
DIALOG(R) File 275:Gale Group Computer DB(TM)  
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02312556 SUPPLIER NUMBER: 55141968 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Arcot Looks to Vertical Web Presence With New CEO.**  
Computergram International, 3701, NA  
July 13, 1999  
ISSN: 0268-716X LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 335 LINE COUNT: 00029

TEXT:

...where his company builds the web security infrastructure that  
enables a user to have one **password** to **access** **multiple** websites, with  
levels of security pre-set by the site provider. The basis of this...

...Alto, California- based company's cryptographic camouflage software,  
which Silvestri says is as secure as **smart** **card** based access methods  
but does away with costly hardware like **smart** **card** readers.

14/3,K/19 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07558051 Supplier Number: 63332741 (USE FORMAT 7 FOR FULLTEXT)  
**New Schlumberger Cryptoflex 16K Smart Card Delivers Higher Capacity for  
Information Security Applications; Brings Increased Security to  
E-commerce Transactions and IT Network Access.**

Business Wire, p0471

July 12, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 697

... of Schlumberger (NYSE:SLB), today launched a 16 kilobytes capacity version of its Cryptoflex(TM) **smart card**, giving the ability to store **multiple passwords** and certificates and enabling an increased number of secure applications and cryptographic services. Called Cryptoflex...

Set	Items	Description
S1	90501	PASSWORD? OR PASSPHRASE? OR PASS(N) (CODE? OR WORD OR PHRASE?) OR PERSONAL() IDENTIFICATION() (WORD OR NUMBER) OR PIN
S2	1304	S1(2N) (MULTIPL? OR PLURAL? OR SEVERAL? OR VARIOUS? OR VARIET? OR MANY OR MORE() THAN() ONE)
S3	479455	HIERARCH? OR MULTILEVEL? OR TIER? OR (MULTIPL? OR PLURAL? - OR VARIOUS? OR MANY OR SEVERAL?) (2N) (ACCESS? OR AUTHORITY?)
S4	950842	DATABASE? OR DATAFILE? OR DATA() (BASE? OR BANK?) OR DB OR OODB OR RDB OR DBM
S5	15182	SMARTCARD? OR (CHIP OR IC OR SMART) () CARD? ? OR CHIPCARD? - OR ICCARD? OR (PHYSICAL OR HARDWARE) (2N) TOKEN? OR FOB OR FOBS
S6	0	S2 AND S3 AND S4 AND S5
S7	5	S2 AND S3 AND S4
S8	16	S2 AND S5
S9	34	S1 AND S4 AND S5
S10	20	S1 AND S3 AND S5
S11	69	S7 OR S8 OR S9 OR S10
S12	55	RD (unique items)
S13	35	S12 NOT PY>2000
S14	34	S13 NOT PD=20000725:20030725
S15	34	S14 NOT PD=20030725:20040729
File	8:Ei Compendex(R) 1970-2004/Jul W3	
		(c) 2004 Elsevier Eng. Info. Inc.
File	35:Dissertation Abs Online 1861-2004/May	
		(c) 2004 ProQuest Info&Learning
File	202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12	
		(c) 2004 EBSCO Publishing
File	65:Inside Conferences 1993-2004/Jul W4	
		(c) 2004 BLDSC all rts. reserv.
File	2:INSPEC 1969-2004/Jul W3	
		(c) 2004 Institution of Electrical Engineers
File	94:JICST-EPlus 1985-2004/Jul W1	
		(c) 2004 Japan Science and Tech Corp(JST)
File	111:TGG Natl.Newspaper Index(SM) 1979-2004/Jul 26	
		(c) 2004 The Gale Group
File	233:Internet & Personal Comp. Abs. 1981-2003/Sep	
		(c) 2003 EBSCO Pub.
File	6:NTIS 1964-2004/Jul W4	
		(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144:Pascal 1973-2004/Jul W3	
		(c) 2004 INIST/CNRS
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Jul W3	
		(c) 2004 Inst for Sci Info
File	62:SPIN(R) 1975-2004/May W5	
		(c) 2004 American Institute of Physics
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jun	
		(c) 2004 The HW Wilson Co.
File	95:TEME-Technology & Management 1989-2004/Jun W1	
		(c) 2004 FIZ TECHNIK

15/5/6 (Item 6 from file: 8)  
DIALOG(R) File 8: Ei Compendex(R)  
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04029930 E.I. No: EIP95012509209

Title: **Secure network access using multiple applications of AT&T's Smart Card**  
Author: Sherman, Stephen A.; Skibo, Richard; Murray, Richard S.  
Source: AT&T Technical Journal v 73 n 5 Sept-Oct 1994. p 61-72  
Publication Year: 1994  
CODEN: ATJOEM ISSN: 8756-2324  
Language: English  
Document Type: JA; (Journal Article) Treatment: A; (Applications); G;  
(General Review)

Journal Announcement: 9503W2

Abstract: Fraud amounting annually to billions of dollars occurs due to the failure of conventional network access security systems, including data, voice, and credit card authorization networks. At the same time, consumers demand greater convenience in their daily lives, where a multitude of **passwords** and personal identification numbers, badges, keys, and other devices have become unmanageable. In response to the obviously conflicting needs, AT&T has developed a credit card sized device, the contactless AT&T **Smart Card**. By means of an internal microprocessor, the card provides the secure partitioning of authentication codes and data files, as well as encryption capabilities, using the data encryption standard. This paper provides a basic description of the card technology, and the overall architecture of securing **access** to **multiple** networks with the AT&T **Smart Card**. (Author abstract) 6 Refs.

Descriptors: Security of data; Computer networks; Network protocols; **Smart cards**; Cryptography; Economic and social effects; Voice/data communication systems; Computer circuits; Microprocessor chips; Codes (symbols)

Identifiers: AT&T **Smart Card**  
Classification Codes:  
723.2 (Data Processing); 722.3 (Data Communication, Equipment & Techniques); 721.3 (Computer Circuits); 901.4 (Impact of Technology on Society)

15/5/8 (Item 8 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

02164464 E.I. Monthly No: EI8701008734

Title: SMART CARD CONCEPT APPLIED TO ACCESS CONTROL.

Author: Seidman, Stephen

Corporate Source: Smart Card Reports, Mountain View, CA, USA

Source: Nuclear Materials Management (Journal of the Institute of Nuclear Materials Management) v 15, INMM 1986 Annu Meet, New Orleans, LA, USA, Jun 22-25 1986 p 517-519

Publication Year: 1986

CODEN: NUMMB8 ISSN: 0362-0034

Language: ENGLISH

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 8701

Abstract: **Passwords** tend to be handled carelessly, and so are easily lost or stolen. Because they are intangible, their loss or theft generally goes unnoticed. Because they are constant, they may be used by anyone for as long as they remain in active use by a legitimate user. A step up in **password** security is offered by a new range of products which generate a new code each time the device is used. Devices are being produced in packages as small as a standard plastic credit card, including internal battery power, integral keyboard and LCD display. Security features of the **Smart Card** are reviewed, and **several** random **access** code generators currently available in the commercial marketplace are described. (Author abstract)

Descriptors: \*SECURITY SYSTEMS; NUCLEAR POWER PLANTS--Safeguard Systems

Identifiers: SMART CARD ; ACCESS CONTROL; BIOMETRICS

Classification Codes:

914 (Safety Engineering); 613 (Nuclear Power Plants)

91 (ENGINEERING MANAGEMENT); 61 (PLANT & POWER ENGINEERING)

15/5/14 (Item 5 from file: 2)  
DIALOG(R)File 2:INSPEC

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5944836 INSPEC Abstract Number: B9807-7540-009, C9807-7140-039

Title: **Telemedicine and security. Confidentiality, integrity, and availability: a Canadian perspective**

Author(s): Jennett, P.; Watanabe, M.; Igras, E.; Premkumar, K.; Hall, W.

Author Affiliation: Office of Med. Educ., Calgary Univ., Alta., Canada

Conference Title: Medicine Meets Virtual Reality. Health Care in the Information Age. Proceedings of Medicine Meets Virtual Reality 4 p. 286-98

Editor(s): Weghorst, S.J.; Sieburg, H.B.; Morgan, K.S.

Publisher: IOS Press, Amsterdam, Netherlands

Publication Date: 1996 Country of Publication: Netherlands xvi+734 pp.

ISBN: 90 5199 250 5 Material Identity Number: XX96-00632

Conference Title: Proceedings of Medicine Meets Virtual Reality IV: Healthcare in the Information Age - Feature Tools for Transforming Medicine Conference Date: 17-20 Jan. 1996 Conference Location: San Diego, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: General, Review (G)

Abstract: The health care system is undergoing major reform. Rapid advances in IT and telecommunications have led to a new type of information infrastructure which can play a major role in this reform. Compatible health information systems are now being integrated and connected across institutional, regional and sectorial boundaries. In the near future, these information systems will be readily accessed and shared by health providers, researchers, policy makers, health consumers and the public. Security is a critical characteristic of any health information system. This paper addresses three fields associated with security: confidentiality, integrity and availability. These are defined and examined as they relate to specific aspects of telemedicine, such as electronic integrated records and clinical **databases**, electronic transfer of documents, and data storage and disposal. The guiding principles, standards and safeguards being considered and put in place to ensure that telemedicine information infrastructures can protect and benefit all stakeholders' rights and needs in both primary and secondary uses of information are reviewed. Implemented, proposed and tested institutional, system and network solutions are discussed, e.g. encryption-decryption methods; data transfer standards; individual and terminal access and entry ID, and **password** levels; **smart - card** access and **PIN** number control; data loss prevention strategies; interference alerts; information access keys; algorithm safeguards; and active marketing to users of standards and principles. Issues such as policy, implementation and ownership are also addressed. (34 Refs)

Subfile: B C

Descriptors: biomedical engineering; data integrity; data privacy; health care; medical information systems; security of data; telecommunication

Identifiers: telemedicine; security; confidentiality; integrity; availability; Canadian perspective; health care system reform; information infrastructure; compatible health information systems integration; electronic integrated records; clinical **databases**; electronic document transfer; data storage; data disposal; standards; active marketing; stakeholder rights; information uses; institutional solutions; system solutions; network solutions; encryption-decryption methods; data transfer standards; individual access; terminal access; entry ID; **password** levels; **smart - card** access; **PIN** number control; data loss prevention strategies; interference alerts; information access keys; algorithm safeguards; policy; implementation; ownership

Class Codes: B7540 (Hospital Engineering); B6210 (Telecommunication applications); C7140 (Medical administration); C6130S (Data security); C7330 (Biology and medical computing)

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15/5/16 (Item 7 from file: 2)  
DIALOG(R)File 2:INSPEC

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04263105 INSPEC Abstract Number: B9212-6210L-008, C9212-5620-005

**Title: Reducing the proliferation of passwords in distributed systems**

Author(s): Hauser, R.C.; Sc, M.; Lee, E.S.

Author Affiliation: Inst. fur Inf., Zurich Univ., Switzerland

Journal: IFIP Transactions A (Computer Science and Technology)  
vol.A-13 p.525-31

Publication Date: 1992 Country of Publication: Netherlands

CODEN: ITATEC ISSN: 0926-5473

Conference Title: Education and Society. Information Processing 92

Conference Sponsor: IFIP

Conference Date: 7-11 Sept. 1992 Conference Location: Madrid, Spain

Language: English Document Type: Conference Paper (PA); Journal Paper  
(JP)

Treatment: Practical (P)

Abstract: Remote commercial applications like **databases**, telebanking, electronic mail systems run security mechanisms based on **passwords**. Too many **passwords** per user become a security problem. The authors describe design systems allowing 'password-less' user access to network services while improving the security of existing **password** mechanisms. A system relying on one primary login with one **password** is proposed. A 'guard' functionality on the user login host's side relays the application service suppliers' **password** requests to a **password** server which satisfies these requests with strong 'machine' **passwords**. To the user, this system appears to be **password-less**. Application providers do not have to give up their current **password** security. Variations of this architecture and its protocols for three levels of increasing security are described, employing complete message traffic encryption, public key cryptography, trusted hardware and software and strong authentication devices like **chipcards**.

(8 Refs)

Subfile: B C

Descriptors: computer networks; cryptography; distributed processing; protocols

Identifiers: **passwords**; distributed systems; security; protocols; message traffic encryption; public key cryptography; authentication

15/5/24 (Item 4 from file: 233)  
DIALOG(R) File 233:Internet & Personal Comp. Abs.  
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00309330 93MW04-006

4th Dimension 3.0.1

Seiter, Charles

Macworld , April 1, 1993 , v10 n4 p126-127, 2 Page(s)

ISSN: 0741-8647

Company Name: ACI US

Product Name: 4th Dimension

Languages: English

Document Type: Software Review

Grade (of Product Reviewed): b

Hardware/Software Compatibility: Macintosh Plus

Geographic Location: United States

Presents a favorable review of 4th Dimension 3.0.1 (\$895), a relational **database** from ACI US (408). The program requires a Macintosh Plus with 2MB RAM, a hard drive, and System 6.0.7. New in this release is a true multitasking capability as well as support for multiple open windows with interprocess communication between windows. The Balloon Help facility in this release allows tagging fields in a **database** with custom balloon help. Improved security allows users to have different **passwords** for various levels of **access** to the same file. Automatic relations have had a speed increase of at least a factor of four, which speeds searches on large related files. The documentation with the package is very easy to read and the updated tutorial has a very large examples file. The multitasking not only speeds execution but also provides ''a great environment for developing multiuser applications.'' Includes one illustration, two screen displays. (djd)

Descriptors: Data Base Management; Database ; Software Review

Identifiers: 4th Dimension; ACI US

15/5/30 (Item 2 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2004 The HW Wilson Co. All rts. reserv.

1394547 H.W. WILSON RECORD NUMBER: BAST96054133

New tools authenticate remote users

McCarthy, Vance;

Datamation v. 42 (Sept. '96) p. 92-4+

DOCUMENT TYPE: Feature Article ISSN: 0011-6963 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: A discussion on the authentication of remote users. Authentication is the way in which a network knows who is dialing in and that the people dialing in are not imposters. To achieve high-quality front-end authentication, most vendors employ what is termed a two-phase approach. This approach requires two components: a one-time use **password** that is usually tied to a code generated by a separate **smart card** carried by the users and a dedicated authentication server that holds a **database** of users and their **passwords**. As is the case with any new technology, finding the right remote security option depends on planning. In addition, if a company feels that it does not have the staff, budget, or technical acumen to handle the authentication of remote users, outsourcing may be a viable option. Some products that offer two-phase authentication are described.

DESCRIPTORS: Computer user identification; Network servers; Computer networks--Access control;

Set	Items	Description
S1	351328	PASSWORD? OR PASSPHRASE? OR PASS(N) (CODE? OR WORD OR PHRASE?) OR PERSONAL() IDENTIFICATION() (WORD OR NUMBER) OR PIN
S2	3259	S1(2N) (MULTIPL? OR PLURAL? OR SEVERAL? OR VARIOUS? OR VARIET? OR MANY OR MORE() THAN() ONE)
S3	52949	HIERARCH? OR MULTILEVEL? OR TIER? OR (MULTIPL? OR PLURAL? - OR VARIOUS? OR MANY OR SEVERAL?) (2N) (ACCESS? OR AUTHORITY?)
S4	158724	DATABASE? OR DATAFILE? OR DATA() (BASE? OR BANK?) OR DB OR OODB OR RDB OR DBM
S5	32249	SMARTCARD? OR (CHIP OR IC OR SMART) () CARD? ? OR CHIPCARD? - OR ICCARD? OR (PHYSICAL OR HARDWARE) (2N) TOKEN? OR FOB OR FOBS
S6	15335	MC=(T01-H01C2 OR W01-A05B)
S7	1610	S1 AND S5
S8	150	S6 AND S7
S9	11	S8 AND S4
S10	6	S8 AND S3
S11	16	S9 OR S10
S12	16	IDPAT (sorted in duplicate/non-duplicate order)
S13	16	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200447

(c) 2004 Thomson Derwent

13/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

016098529 \*\*Image available\*\*  
WPI Acc No: 2004-256405/200424  
XRPX Acc No: N04-203826

Biometric data access facilitating system, has client equipped with smart card including authentication unit, and biometric data processing unit with record in database retrievable using result of data processing

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); FEDRONIC D L J (FEDR-I); LE SAINT E F (LSAI-I)

Inventor: FEDRONIC D L J; LE SAINT E F

Number of Countries: 032 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040034784	A1	20040219	US 2002218665	A	20020815	200424 B
EP 1396779	A2	20040310	EP 2003291991	A	20030808	200424

Priority Applications (No Type Date): US 2002218665 A 20020815

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040034784	A1	13		H04L-009/32	

EP 1396779 A2 E G06F-001/00

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB  
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20040034784 A1

NOVELTY - The system has a client (10) equipped with a **smart card** (15) and a biometric sensor for input of biometric data associated with a cardholder. The **smart card** has an authentication unit and a memory stored in an identifier associated with the cardholder and a token secret (35) associated with a server (35). A biometric data processing unit has a record in a **database** retrievable using a result of the data processing.

DETAILED DESCRIPTION - The record has a biometric template associated with the cardholder and another server secret associated with the **smart card**. An INDEPENDENT CLAIM is also included for a method to facilitate separate cardholder and authority access to resources controlled by a **smart card**.

USE - Used for facilitating access of biometric data controlled by a **smart card**.

ADVANTAGE - The authentication unit in the **smart card** allows a users **personal identification number** (PIN) to operate independently from a biometric authentication system, thereby reducing the administrative burden of having to keep a users PIN synchronized with the PIN used to access the users **smart card**.

DESCRIPTION OF DRAWING(S) - The drawing shows a generalized block diagram of a biometric data access facilitating system.

- Bio scan (5)
- Client (10)
- Smart card (15)
- Secret (35)
- Server (50)
- Database (60)
- pp; 13 DwgNo 1/5

Title Terms: DATA; ACCESS; FACILITATE; SYSTEM; CLIENT; EQUIP; SMART; CARD; AUTHENTICITY; UNIT; DATA; PROCESS; UNIT; RECORD; DATABASE ; RETRIEVAL; RESULT; DATA; PROCESS

Derwent Class: S05; T01; T04; W01

International Patent Class (Main): G06F-001/00; H04L-009/32

File Segment: EPI

13/5/14 (Item 14 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014371372 \*\*Image available\*\*  
WPI Acc No: 2002-192075/200225  
XRPX Acc No: N02-145697

Hierarchical order job execution system for computer system has terminal equipment which provides second password to IC cards and approves execution of one's own job if first password is correct

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002014738	A	20020118	JP 2000199159	A	20000630	200225 B

Priority Applications (No Type Date): JP 2000199159 A 20000630

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002014738	A	11		G06F-001/00	

Abstract (Basic): JP 2002014738 A

NOVELTY - A first terminal equipment (1) provides a first password to IC cards (6) to which writing and reading of data are performed. A second terminal equipment (2) provides a second password to the IC cards is execution of one's own job is completed while the first password is read from the IC cards , and approves the execution of one's own job if the first password is correct.

USE - For computer system.

ADVANTAGE - Enables user to execute jobs sequentially, without knowing a password .

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the hierarchical order job execution system. (Drawing includes non-English language text).

First terminal equipment (1)

Second terminal equipment (2)

IC cards (6)

pp; 11 DwgNo 1/8

Title Terms: HIERARCHY ; ORDER; JOB; EXECUTE; SYSTEM; COMPUTER; SYSTEM; TERMINAL; EQUIPMENT; SECOND; PASSWORD ; IC; CARD; EXECUTE; ONE; JOB; FIRST; PASSWORD ; CORRECT

Derwent Class: T01

International Patent Class (Main): G06F-001/00

File Segment: EPI

13/5/15 (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013882813 \*\*Image available\*\*  
WPI Acc No: 2001-367026/200138  
XRPX Acc No: N01-267821

Unauthorized data access prevention method for computerized database ,  
involves encrypting data before it is transmitted to escrow facility

Patent Assignee: BRODIA GROUP (BROD-N)

Inventor: GOLDSTEIN T C; RUBIN P

Number of Countries: 092 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200079368	A1	20001228	WO 2000US17307	A	20000621	200138 B
AU 200056341	A	20010109	AU 200056341	A	20000621	200138

Priority Applications (No Type Date): US 99338915 A 19990623

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200079368	A1	E	40 G06F-001/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH  
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE  
KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO  
RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200056341 A G06F-001/00 Based on patent WO 200079368

Abstract (Basic): WO 200079368 A1

NOVELTY - An user ID and its corresponding **password** are received from an user. The data corresponding to user ID is encrypted by the encryption key. The encrypted data associated with user ID is stored in **database** (26). The encrypted data of encryption key is transmitted to escrow facility (40).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for method for changing **password** corresponding to user account.

USE - For computerized **database** in internet. Also for **database** management systems e.g. automatic teller systems, flight reservation systems, medical record systems and the like.

ADVANTAGE - Prevents unauthorized access to data stored on computerized **database** . Since data is encrypted with secret key provided by **database** facility, escrow facility has no access to data when it receives it for decryption with old key and re-encryption with new key.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of software **smart card** system.

**Database** (26)

Escrow facility (40)

pp; 40 DwgNo 1/8

Title Terms: DATA; ACCESS; PREVENT; METHOD; **DATABASE** ; DATA; TRANSMIT;  
ESCROW; FACILITY

Derwent Class: T01; T05; W01

International Patent Class (Main): G06F-001/00

File Segment: EPI

Set	Items	Description
S1	179050	PASSWORD? OR PASSPHRASE? OR PASS(N) (CODE? OR WORD OR PHRASE?) OR PERSONAL() IDENTIFICATION() (WORD OR NUMBER) OR PIN
S2	5006	S1(2N) (MULTIPL? OR PLURAL? OR SEVERAL? OR VARIOUS? OR VARIETY? OR MANY OR MORE() THAN() ONE)
S3	122044	HIERARCH? OR MULTILEVEL? OR TIER? OR (MULTIPL? OR PLURAL? - OR VARIOUS? OR MANY OR SEVERAL?) (2N) (ACCESS? OR AUTHORITY?)
S4	185116	DATABASE? OR DATAFILE? OR DATA() (BASE? OR BANK?) OR DB OR OODB OR RDB OR DBM
S5	17672	SMARTCARD? OR (CHIP OR IC OR SMART) () CARD? ? OR CHIPCARD? - OR ICCARD? OR (PHYSICAL OR HARDWARE) (2N) TOKEN? OR FOB OR FOBS
S6	0	S2(5N) S4(5N) S5
S7	35	S2(5N) S5
S8	98	S2(S) S5
S9	15	S8(S) S3
S10	17	S8(S) S4
S11	33	S1(2N) S4(S) S5
S12	14	(S7 OR S9 OR S10 OR S11) AND IC=(G06F-011? OR G06F-012? OR H04L-009?)
S13	34	S9 OR S10 OR S12
S14	34	IDPAT (sorted in duplicate/non-duplicate order)
S15	33	IDPAT (primary/non-duplicate records only)

File 348: EUROPEAN PATENTS 1978-2004/Jul W03  
(c) 2004 European Patent Office

File 349: PCT FULLTEXT 1979-2002/UB=20040722, UT=20040715  
(c) 2004 WIPO/Univentio

15/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01269743

Card observing method

Kartenbeobachtungsverfahren

Methode d'observation de carte

PATENT ASSIGNEE:

Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo  
101-8010, (JP), (Applicant designated States: all)

INVENTOR:

Hirose, Takahiro, Hitachi Ltd., Intel. Prop. Group, New Marunouchi Bldg.,  
5-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8220, (JP)

Kagimasa Toyohiko, Hitachi Ltd., Intel. Prop. Grp., New Marunouchi Bldg.,  
5-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8220, (JP)

Maeoka, Jun, Hitachi Ltd., Intel. Prop. Group, New Marunouchi Bldg., 5-1,  
Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8220, (JP)

LEGAL REPRESENTATIVE:

Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1094423 A2 010425 (Basic)  
EP 1094423 A3 040107

APPLICATION (CC, No, Date): EP 2000117805 000818;

PRIORITY (CC, No, Date): JP 99296255 991019

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07F-007/10; G06F-012/14 ; G06K-019/073;  
G06F-001/00

ABSTRACT WORD COUNT: 78

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200117	587
SPEC A	(English)	200117	4157
Total word count - document A			4744
Total word count - document B			0
Total word count - documents A + B			4744

...INTERNATIONAL PATENT CLASS: G06F-012/14

...SPECIFICATION 112) via the network 111, the contents of the observation  
program differ according to the IC card. The operation of the  
observation program will be described below using an example. The  
observation...

...matching processor 602 that checks communication frames. The  
communication pattern matching processor 602 includes a pass word  
database 604 and a communication pattern database 603. The pass  
word database 604 includes an invalid pass word list 605 and a try  
counter 606. The pass word database 604 is used to check pass word  
frames, while the communication pattern database 603 is...

01253800

Biometric authentication device

Biometrisches Gerat zur Bescheinigung der Echtheit

Appareil biometrique d'authentification

PATENT ASSIGNEE:

Keyware Technologies, (2853420), Kemmelweg 46, 8900 Ieper, (BE),  
(Applicant designated States: all)

INVENTOR:

KEYWARE TECHNOLOGIES, c/o Declercq Francis, Exelsiorlaan 28-30, B-1930  
Zaventem, (BE)

LEGAL REPRESENTATIVE:

Quintelier, Claude et al (73881), Gevers & Vander Haeghen, Patent  
Attorneys, Rue de Livourne 7, 1060 Brussels, (BE)

PATENT (CC, No, Kind, Date): EP 1081632 A1 010307 (Basic)

APPLICATION (CC, No, Date): EP 99870178 990901;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06K-009/68

ABSTRACT WORD COUNT: 184

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200110	726
SPEC A	(English)	200110	5035
Total word count - document A			5761
Total word count - document B			0
Total word count - documents A + B			5761

...SPECIFICATION The biometric templates of the users also have to be created and stored into the **database**. For this purpose each of the users to who access will be provided to the...

...a predetermined format by the interface 21 and forwarded via the decision unit and the **database** manager 31 to the **database** where the template is stored. If the **database** stores the templates of **several** users, a **PIN** (Personal Identification Number) is assigned to each user and the value of the PIN is stored in the **database** together with the templates to which the PIN belongs. If a **smartcard** is used as **database** the use or manual entry of a PIN is not necessarily required as the user carries this **smartcard** with him and only needs to insert his **smartcard** into the device to furnish his template and his supposed identity stored on the **smartcard** to the device. In order to enable a suitable operation of the device, it is...

00274795

System for permitting access to data field area in IC card for multiple services

System zum Gewahren des Zugangs in Speicherfeldbereiche einer Chipkarte fur mehrere Anwendungen

Systeme pour permettre l'accès a l'espace de données d'une carte a circuit integre pour usages multiples

PATENT ASSIGNEE:

FUJITSU LIMITED, (211460), 1015, Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa 211, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Ogasawara, Nobuo, 688-11, Suenaga Takatsu-ku, Kawasaki-shi Kanagawa 213, (JP)

LEGAL REPRESENTATIVE:

Joly, Jean-Jacques et al (39741), Cabinet Beau de Lomenie 158, rue de l'Universite, 75340 Paris Cedex 07, (FR)

PATENT (CC, No, Kind, Date): EP 262025 A2 880330 (Basic)  
EP 262025 A3 890712  
EP 262025 B1 930317

APPLICATION (CC, No, Date): EP 87402033 870911;

PRIORITY (CC, No, Date): JP 86217722 860916

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G07F-007/10

ABSTRACT WORD COUNT: 161

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	616
CLAIMS B	(German)	EPAB97	531
CLAIMS B	(French)	EPAB97	742
SPEC B	(English)	EPAB97	1981
Total word count - document A			0
Total word count - document B			3870
Total word count - documents A + B			3870

...SPECIFICATION and the card holder. The manufacturer uses his code (M-key) to encrypt certain system data . The card broker can arrange to have a " personalization code " entered in the card, for his use. The card broker can use his personalisation key to set an organisation key (O-key) or a PIN in the card. The individual card-holder has a PIN.

In the WO 87/07060 system, reading and writing operations to particular data fields ( memory zones ) are restricted by reference to a "security level" listed in a zone definition table. This ...

...read from, the particular key(s) required can be different for reading and writing. The various security levels can be assigned to one or more data fields in the IC card as the card broker wishes.

EP-A-0 152 024 describes a system for controlling...

...CLAIMS data fields, the system comprising:

a plurality of data fields (61,62,63) in the IC card ;  
a sequence comprising a data field selection means ( 31 ), a personal identification number authentication means (32), an authentication code validation means ( 33 ) and an access right selection means (34);

an input means (11-14) for inputting data field identification information, a personal identification number, access qualification identification information and an authentication code; a data field access means (4) and..

15/3,K/11 (Item 11 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

01035139 \*\*Image available\*\*

ACCESS SYSTEM UTILIZING MULTIPLE FACTOR IDENTIFICATION AND AUTHENTICATION  
Système d'accès utilisant une identification et une authentification  
MULTI-FACTEURS

Patent Applicant/Assignee:

TECSEC INC, Suite 220, 1953 Gallows Road, Vienna, VA 22182, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

SCHEIDT Edward M, 1048 Dead Run Lane, McLean, VA 22101, US, US  
(Residence), US (Nationality), (Designated only for: US)

DOMANGUE Ersin, 7006 Woodbine Road, Woodbine, MD 21797, US, US  
(Residence), US (Nationality), (Designated only for: US)

BUTLER Roger, 15214 McConnell Court, Centreville, VA 20120, US, US  
(Residence), US (Nationality), (Designated only for: US)

TSANG Wai, 3417 Putnam Road, Falls Church, VA 22042, US, US (Residence),  
US (Nationality), (Designated only for: US)

Legal Representative:

CHAMPAGNE Thomas M (agent), IP Strategies, PC, Suite 500, 1730 North Lynn  
Street, Arlington, VA 22209, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200365169 A2-A3 20030807 (WO 0365169)

Application: WO 2003US2931 20030130 (PCT/WO US03002931)

Priority Application: US 200260011 20020130; US 200260039 20020130

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 30289

Main International Patent Class: H04L-009/32

Fulltext Availability:

Detailed Description

Detailed Description

... The tamper resistance reduces the risk of many authentication attacks  
such as the brute force **Password** attack.

Many hardware Tokens have the means to uniquely identify  
themselves.

For some, it is a unique serial number...

15/3, K/21 (Item 21 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00881319 \*\*Image available\*\*

**SYSTEM AND METHOD FOR SECURE SMARTCARD ISSUANCE**  
**SYSTEME ET PROCEDE D'EMISSION D'UNE CARTE A PUCE SECURISEE**

Patent Applicant/Inventor:

GIEN Peter H, Suite 403, 330 Fifth Avenue, New York, NY 10001, US, US  
(Residence), ZA (Nationality)  
HETSCHOLD Thomas, Hermann-Steinhaeuser-Strasse 17, 63065 Offenbach, DE,  
DE (Residence), DE (Nationality)

Legal Representative:

RADDING Rory J (et al) (agent), Pennie & Edmonds LLP, 1155 Avenue of the  
Americas, New York, NY 10036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200215464 A1 20020221 (WO 0215464)  
Application: WO 2001US25385 20010814 (PCT/WO US0125385)  
Priority Application: US 2000224994 20000814

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10028

Main International Patent Class: H04L-009/00

International Patent Class: G06F-012/14

Fulltext Availability:

Detailed Description

Detailed Description

... based upon a random character selection algorithm to reduce the likelihood of similar initial user **PIN / passphrases** in **multiple smartcards** . The card issuer must be required to use a different initial user PIN/passphrase for...based upon a random character selection algorithm to reduce the likelihood of similar security officer **PIN / passphrases** in **multiple smartcard** tokens. The card issuer must use different security officer PIN/passphrases for each card. A...

Set	Items	Description
S1	351328	PASSWORD? OR PASSPHRASE? OR PASS(N) (CODE? OR WORD OR PHRASE?) OR PERSONAL() IDENTIFICATION() (WORD OR NUMBER) OR PIN
S2	3259	S1(2N) (MULTIPL? OR PLURAL? OR SEVERAL? OR VARIOUS? OR VARIET? OR MANY OR MORE() THAN() ONE)
S3	52949	HIERARCH? OR MULTILEVEL? OR TIER? OR (MULTIPL? OR PLURAL? - OR VARIOUS? OR MANY OR SEVERAL?) (2N) (ACCESS? OR AUTHORITY?)
S4	158724	DATABASE? OR DATAFILE? OR DATA() (BASE? OR BANK?) OR DB OR - OODB OR RDB OR DBM
S5	32249	SMARTCARD? OR (CHIP OR IC OR SMART) () CARD? ? OR CHIPCARD? - OR ICCARD? OR (PHYSICAL OR HARDWARE) (2N) TOKEN? OR FOB OR FOBS
S6	3	S2 AND S4 AND S5
S7	5	S1(3N) S4 AND S5
S8	44	S2 AND S5
S9	1	S2 AND S4 AND S3
S10	48	S6 OR S7 OR S8
S11	26	S10 AND IC=(G06F? OR H04L?)
S12	26	IDPAT (sorted in duplicate/non-duplicate order)
S13	26	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)  
(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200447  
(c) 2004 Thomson Derwent

13/5/4 (Item 4 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014509769 \*\*Image available\*\*  
WPI Acc No: 2002-330472/200237  
XRPX Acc No: N02-259343

Systems/files access security provision method for e.g. computer networks, involves authorizing individual for accessing secure password and password is passed from database to password subsystem to provide access to that system

Patent Assignee: ACTIVCARD IRELAND LTD (ACTI-N); DEW ENG & DEV LTD (DEWE-N)

Inventor: HAMID L; HILLHOUSE R D

Number of Countries: 099 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2317138	A1	20020125	CA 2317138	A	20000830	200237 B
WO 200362968	A1	20030731	WO 2002EP778	A	20020124	200360 N
AU 2002257576	A1	20030902	AU 2002257576	A	20020124	200422 N
			WO 2002EP778	A	20020124	

Priority Applications (No Type Date): US 2000625547 A 20000725; WO 2002EP778 A 20020124; AU 2002257576 A 20020124

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

CA 2317138 A1 E 30 H04L-009/32  
WO 200362968 A1 E G06F-001/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 2002257576 A1 G06F-001/00 Based on patent WO 200362968

Abstract (Basic): CA 2317138 A1

NOVELTY - A secure password is provided to a **password database** and a **password subsystem** for securing a determined system or file. A user authorization method with sufficient security level to access the password, is determined, using which an individual is authorized and the secure password is retrieved from the **database** and manually entered to the subsystem for accessing the system or file.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for method of changing a password for securing files accessible by password data entry.

USE - For providing improved security for systems or files accessible by password data entry in computer networks, automatic teller machines, telephone banking, calling cards, telephone answering services, houses, safes, etc. Also for providing security to military related projects.

ADVANTAGE - Simple passwords can be replaced with very complex passwords without requiring the typical user inconvenience relating to complex passwords. Allows a user to secure some files with personal information using a password and others using a company provided password as users are prompted to select **more than one password** for an application. This also allows for hierarchy of security levels each having a password. Easy to remember the secure passwords as they can be stored in a key **database** on a **smart card**.

DESCRIPTION OF DRAWING(S) - The figure shows a flow diagram of a method of accessing the key data within a portable medium, from different locations.

pp; 30 DwgNo 4/7

Title Terms: SYSTEM; FILE; ACCESS; SECURE; PROVISION; METHOD; COMPUTER; NETWORK; AUTHORISE; INDIVIDUAL; ACCESS; SECURE; PASSWORD; PASSWORD; PASS; DATABASE; PASSWORD; SUBSYSTEM; ACCESS; SYSTEM

Derwent Class: T01; W01

International Patent Class (Main): G06F-001/00 ; H04L-009/32

International Patent Class (Additional): **G06F-012/14**  
File Segment: EPI

13/5/7 (Item 7 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013574571 \*\*Image available\*\*  
WPI Acc No: 2001-058778/200107  
XRPX Acc No: N01-043852

**PIN code storage device, has bank card shape and size with keys, display and microprocessor chip memory**  
Patent Assignee: GIMBRERE F T H (GIMB-I); SNEL B (SNEL-I); TILMA K (TILM-I)  
; VAN DER KOLK P F (VKOL-I); VAN DER PUT H J W A (VPUT-I)

Inventor: SNEL B; TILMA K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
NL 1011708	C6	20001003	NL 991011708	A	19990331	200107 B

Priority Applications (No Type Date): NL 991011708 A 19990331

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
NL 1011708	C6	5		G06F-015/02	

Abstract (Basic): NL 1011708 C6

NOVELTY - The device is designed to carry **several** PIN number combinations and has the same size as a standard bank card, except that it has a thickness of ca. 2-3.5 mm and has rounded side edges on the rear side. The device contains a microprocessor chip with an integral memory powered by watch-type batteries. The device has three access code keys, a start key, an enter key and a correction key, as well as several number/letter combination keys with images or trademarks on them. A display is provided for the number/letter combinations.

USE - For storing PIN codes, passwords or other access codes for ATMs, bank cards, GSM devices, **chip cards**, combination locks, computers etc.

ADVANTAGE - **Several** PIN codes etc. can be retrieved using just one code inputted into the device.

DESCRIPTION OF DRAWING(S) - Figure 1a shows the front side of the device, with the start, enter and correction keys beneath the display, and the number/letter code selection keys beneath these.

pp; 5 DwgNo 1a/3

Title Terms: PIN; CODE; STORAGE; DEVICE; BANK; CARD; SHAPE; SIZE; KEY; DISPLAY; MICROPROCESSOR; CHIP; MEMORY

Derwent Class: T01

International Patent Class (Main): G06F-015/02

File Segment: EPI

13/5/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011890860 \*\*Image available\*\*

WPI Acc No: 1998-307770/199827

XRPX Acc No: N98-241938

IC card using non-volatile memory for electronic commercial transaction - has memory area in which multiple groups of password are stored and when card corresponds to first password according to input signal, control circuit calculates second password and outputs it

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10111896	A	19980428	JP 96262760	A	19961003	199827 B

Priority Applications (No Type Date): JP 96262760 A 19961003

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10111896	A	13		G06F-019/00	

Abstract (Basic): JP 10111896 A

The card (ED) has a non-volatile memory area. The memory area stores multiple groups of password having two in one group.

The memory area rewrites the password according to the requirement and it monitors the password. When the card corresponds to the first password according to the input signal, a control circuit performs calculation process of the second password and is then output.

USE - In e.g. electronic money.

ADVANTAGE - Offers high security during commercial transaction.

Improves degrees of freedom of design.

Dwg.1/12

Title Terms: IC; CARD; NON; VOLATILE; MEMORY; ELECTRONIC; COMMERCIAL; TRANSACTION; MEMORY; AREA; MULTIPLE; GROUP; PASSWORD; STORAGE; CARD; CORRESPOND; FIRST; PASSWORD; ACCORD; INPUT; SIGNAL; CONTROL; CIRCUIT; CALCULATE; SECOND; PASSWORD; OUTPUT

Index Terms/Additional Words: ELECTRONIC; MONEY

Derwent Class: T01; T04; T05

International Patent Class (Main): G06F-019/00

International Patent Class (Additional): G06F-015/00 ; G06F-017/60 ; G07F-007/12; G07F-019/00; G07G-001/12

File Segment: EPI

13/5/11 (Item 11 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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004567201  
WPI Acc No: 1986-070545/198611  
XRPX Acc No: N86-051494

Identification card including keyboard unit - allowing personal identification number as secret data and transaction data to be entered into LSI circuit

Patent Assignee: CASIO COMPUTER CO LTD (CASK )

Inventor: KAWANA S

Number of Countries: 007 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 174016	A	19860312	EP 85111152	A	19850904	198611 B
FR 2570207	A	19860314				198617
US 4697072	A	19870929	US 85769872	A	19850827	198741
EP 174016	B	19920115				199203
DE 3585188	G	19920227				199210

Priority Applications (No Type Date): JP 84187406 A 19840907

Cited Patents: A3...8836; DE 3222288; EP 96599; No-SR.Pub; US 4320387; WO 8203484

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 174016	A	E	22		
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Designated States (Regional): CH DE GB IT LI

EP 174016	B				
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Designated States (Regional): CH DE GB IT LI

Abstract (Basic): EP 174016 A

A card holder enters personal identification number data as secret data in a LSI circuit in an identification card (1) through a keyboard (2). The LSI circuit calculates encrypted data in accordance with the entered data.

The encrypted data are shown by the card holder to a cashier at a point-of-sales terminal. The latter performs authentication of the card and the card holder in accordance with the encrypted data.

USE/ADVANTAGE - Properly authenticates both the card itself and the card holder.

Title Terms: IDENTIFY; CARD; KEYBOARD; UNIT; ALLOW; PERSON; IDENTIFY; NUMBER; SECRET; DATA; TRANSACTION; DATA; ENTER; LSI; CIRCUIT

Index Terms/Additional Words: SCALE; INTEGRATE; CREDIT

Derwent Class: T05

International Patent Class (Additional): G06F-015/02 ; G06K-005/10; G06K-019/00; G07D-007/00; G07F-007/10

File Segment: EPI

13/5/12 (Item 12 from file: 347)  
DIALOG(R) File 347:JAPIO  
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07656695 \*\*Image available\*\*

AUTHENTICATION METHOD USING PLURALITY OF ACCOUNTS AND DEVICE AND PROCESSING  
PROGRAM

PUB. NO.: 2003-150553 [JP 2003150553 A]

PUBLISHED: May 23, 2003 (20030523)

INVENTOR(s): ITO KOJI  
KAWABE HIDEKI  
OTA YUKIYOSHI

APPLICANT(s): NIPPON TELEGR & TELEPH CORP (NTT)

APPL. NO.: 2001-349303 [JP 2001349303]

FILED: November 14, 2001 (20011114)

INTL CLASS: G06F-015/00 ; B42D-015/10; G06K-017/00; H04L-009/32

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide an authentication method using a plurality of accounts, a system device, and a processing program capable of maintaining high-degree security by using a plurality of IC cards or ID/passwords for authentication.

SOLUTION: An authentication system device provides service so long as expected all authentication processing are completed by executing the authentication processing by using the respective IC cards 801, 901, and 1001 or the ID/ passwords to the plurality of accounts in a computer network NW, and adopts a characteristic constitution means for constructing a completion system for integrally repeating mutual both authentication processing a plurality of times by imparting continuous consistency over to the inside of the same sequence by an authentication client terminal 501 for executing the authentication processing a plurality of times in the same sequence according to a request of an authentication server 601 and the authentication server 601 for executing the authentication processing a plurality of times in the same sequence according to a determined condition.

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13/5/14 (Item 14 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05644397 \*\*Image available\*\*  
ELECTRONIC PURSE SYSTEM

PUB. NO.: 09-259197 [JP 9259197 A]  
PUBLISHED: October 03, 1997 (19971003)  
INVENTOR(s): SARUTANI MAKOTO  
APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 08-066046 [JP 9666046]  
FILED: March 22, 1996 (19960322)  
INTL CLASS: [6] G06F-019/00 ; A61B-005/117; G07F-007/08  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 28.2  
(SANITATION -- Medical); 29.4 (PRECISION INSTRUMENTS --  
Business Machines)  
JAPIO KEYWORD: R007 (ULTRASONIC WAVES); R087 (PRECISION MACHINES --  
Automatic Banking); R107 (INFORMATION PROCESSING -- OCR & OMR  
Optical Readers)

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide an electronic purse system with which a security effect is improved by providing **plural password** numbers and enabling them to be updated (change).

SOLUTION: While using a customer card (**IC card**) 8 storing two of a password number A for charge transaction by electronic money and a password number B for pay transaction by electronic money, the transaction is permitted by the password number matched with each transaction. Besides, the password number can be changed by using an automatic teller machine. In this case, the customer is identified by the iris data of that customer, and these data are collated with iris data 12c stored and registered in the customer card 8, and when the oustomer is identified as the same person, the password number can be changed into any new password number even without inputting the current password number.

13/5/16 (Item 16 from file: 347)  
DIALOG(R) File 347:JAPIO  
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04517692 \*\*Image available\*\*  
DEVICE AND METHOD FOR INPUTTING PASSWORD NUMBER

PUB. NO.: 06-161592 [JP 6161592 A]  
PUBLISHED: June 07, 1994 (19940607)  
INVENTOR(s): HORIE TOSHIYUKI  
APPLICANT(s): ZEXEL CORP [000333] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-330098 [JP 92330098]  
FILED: November 16, 1992 (19921116)  
INTL CLASS: [5] G06F-001/00 ; G06F-015/30  
JAPIO CLASS: 45.9 (INFORMATION PROCESSING -- Other); 45.4 (INFORMATION  
PROCESSING -- Computer Applications)  
JAPIO KEYWORD: R087 (PRECISION MACHINES -- Automatic Banking); R131  
(INFORMATION PROCESSING -- Microcomputers & Microprocessors)  
JOURNAL: Section: P, Section No. 1798, Vol. 18, No. 484, Pg. 115,  
September 08, 1994 (19940908)

#### ABSTRACT

PURPOSE: To provide the practical method and device for inputting password  
number for which the degree of security is sufficiently high and the input  
operation of the password number is simplified as well.

CONSTITUTION: A password number input device 1 is provided with a control  
circuit 3, IC card reader/writer 5 connected to the control circuit,  
ten-key 7 for number input, and display 9. An IC card 13 carried by a  
user previously stores the plural kinds of password numbers and when  
the IC card is fed to the reader/writer 5, the control circuit 3  
selects one of plural password numbers from the ten-key 7 according to  
the instruction of the user and displays a message on the display 9 for  
pressing the input of that number. Next, when the user inputs the number  
from the ten-keys, the control circuit 3 compares the number with the  
selected password number and when they are coincident, the control, circuit  
judges the input of the right password number and permits the operation of  
operating equipment 15.

13/5/19 (Item 19 from file: 347)  
DIALOG(R) File 347:JAPIO  
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02594142 \*\*Image available\*\*  
IC CARD TERMINAL EQUIPMENT

PUB. NO.: 63-211042 [JP 63211042 A]  
PUBLISHED: September 01, 1988 (19880901)  
INVENTOR(s): ENDO TAKAHIRO  
SHIBUYA MAKOTO  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 62-044251 [JP 8744251]  
FILED: February 27, 1987 (19870227)  
INTL CLASS: [4] G06F-012/14 ; G06K-017/00  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.3  
(INFORMATION PROCESSING -- Input Output Units)  
JOURNAL: Section: P, Section No. 808, Vol. 13, No. 1, Pg. 131, January  
06, 1989 (19890106)

#### ABSTRACT

PURPOSE: To prevent information other than required information from being leaked by sending the password of a first IC card to a second IC card to read/ write corresponding information after the first IC card is verified.

CONSTITUTION: When an IC card B 23 where plural passwords are stored is inserted, passwords and the owner's number are read into an IC card B password and owner's number input means 17, and the data base of a center is accessed to confirm the owner's number, and an IC card A information input/ output program driving means 19 is driven to start programs corresponding to passwords. Passwords read from the card B 23 are sent to an IC card A 21, and an information group is read from or written in the card A 21. Thus, information in the card A 21 which do not correspond to passwords of the read card B 23 are not read.

13/5/20 (Item 20 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02456448 \*\*Image available\*\*  
AREA ACCESS PERMITTING SYSTEM FOR IC CARD FOR PLURAL SERVICES

PUB. NO.: 63-073348 [JP 63073348 A]  
PUBLISHED: April 02, 1988 (19880402)  
INVENTOR(s): OGASAWARA NOBUO  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 61-217722 [JP 86217722]  
FILED: September 16, 1986 (19860916)  
INTL CLASS: [4] G06F-012/14 ; G06K-017/00  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.3  
(INFORMATION PROCESSING -- Input Output Units)  
JOURNAL: Section: P, Section No. 745, Vol. 12, No. 300, Pg. 106,  
August 16, 1988 (19880816)

#### ABSTRACT

PURPOSE: To protect a data field by setting a **PIN**, plural AC codes according to access qualifications and an access right in an **IC card** every data field at the time of generating the data field.

CONSTITUTION: When a terminal equipment requests to start the access of the data field, the respective data fields ID122 are searched in order to decide the data field which coincides with an input data field ID101. Then the PIN123 is compared with an input PIN102 so as to affirm 112 whether a proper holder utilizes the data field or not and whether it is the data field which the holder admitted to access or not. When they coincide, the AC code 124 corresponding to an input access qualification classification 103 is obtained from data field administration information 121 and it is compared with an input AC code 104 so as to affirm that the holder is a proper access operator who has a specified access right to the data field

13/5/23 (Item 23 from file: 347)  
DIALOG(R) File 347:JAPIO  
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02211486 \*\*Image available\*\*  
IC CARD READ/WRITE SYSTEM

PUB. NO.: 62-128386 [JP 62128386 A]  
PUBLISHED: June 10, 1987 (19870610)  
INVENTOR(s): SAKAMOTO KEIJI  
APPLICANT(s): OMRON TATEISI ELECTRONICS CO [000294] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 60-270290 [JP 85270290]  
FILED: November 29, 1985 (19851129)  
INTL CLASS: [4] G06K-017/00; B42D-015/02; G06F-015/30  
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units); 29.4  
(PRECISION INSTRUMENTS -- Business Machines); 30.9  
(MISCELLANEOUS GOODS -- Other); 45.4 (INFORMATION PROCESSING  
-- Computer Applications)  
JAPIO KEYWORD: R087 (PRECISION MACHINES -- Automatic Banking)  
JOURNAL: Section: P, Section No. 637, Vol. 11, No. 350, Pg. 46,  
November 17, 1987 (19871117)

#### ABSTRACT

PURPOSE: To smooth the transaction processing of an **IC card** by providing a magnetic stripe read means and a pass code retrieval means retrieving a pass code corresponding to the type of the **IC card** from **plural pass codes** stored in a pass code storage means and outputting the result to the **IC card**.

CONSTITUTION: A magnetic stripe 12 recording the card type is provided to the **IC card** 1 and a means reading the said magnetic stripe data is provided to an **IC card** reader/writer to discriminate the type of the **IC card** by reading the magnetic stripe when the **IC card** is loaded. In retrieving a pass code (PIN code) storage means depending on the read card type, the PIN code corresponding to the read **IC card** type is outputted and the PIN code is made coincident by one PIN code check. Thus, the transaction processing of the **IC card** is smoothed.